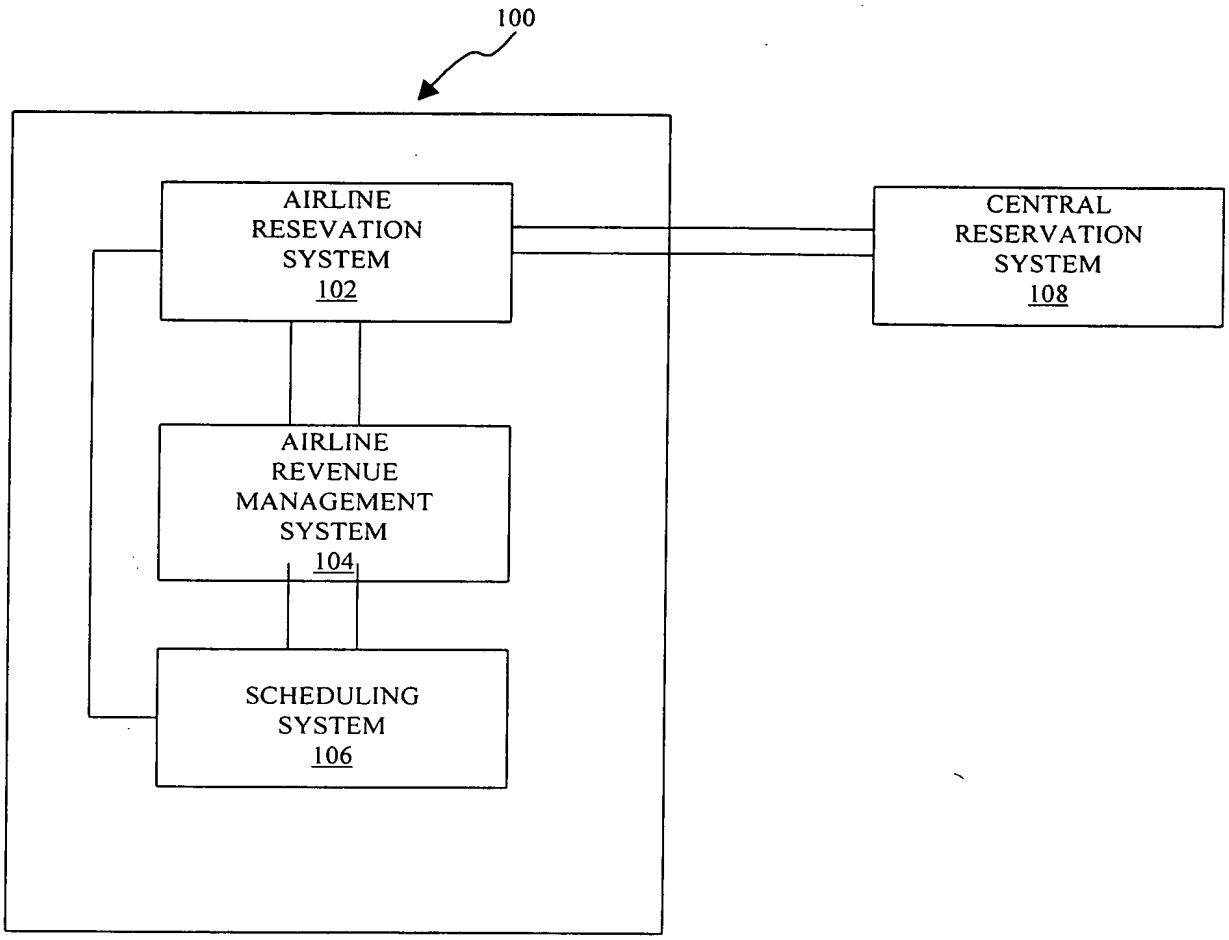
100
AIRLINE RESEVATION SYSTEM 102
CENTRAL RESERVATION SYSTEM 108
AIRLINE REVENUE MANAGEMENT SYSTEM 104
SCHEDULING SYSTEM 106

FIG. 1

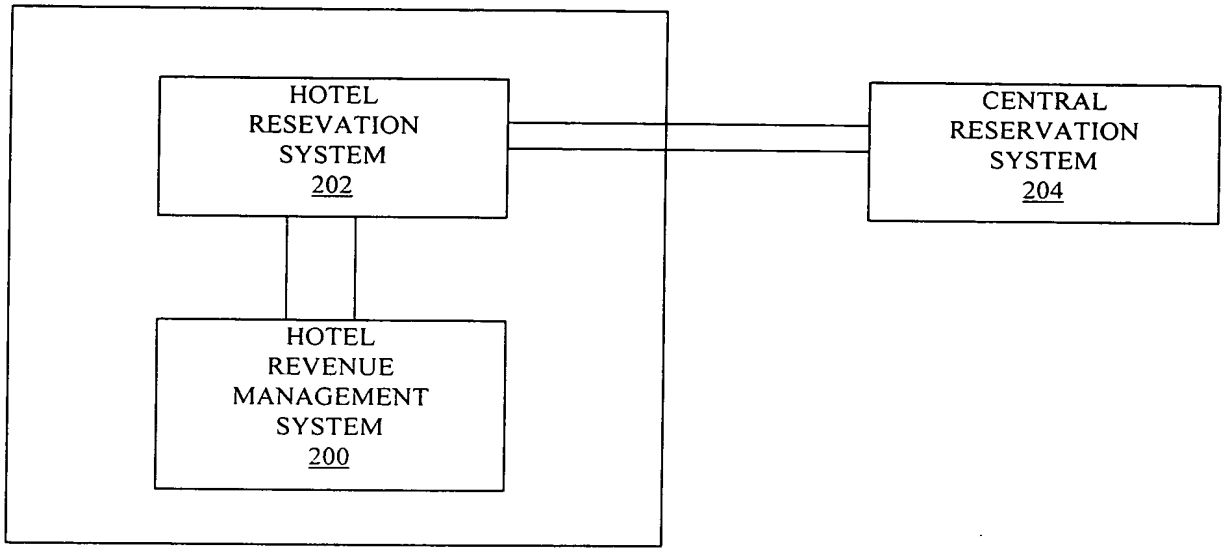
HOTEL
RESEVATION
SYSTEM
202
CENTRAL
RESERVATION
SYSTEM
204
HOTEL
REVENUE
MANAGEMENT
SYSTEM
200

FIG. 2

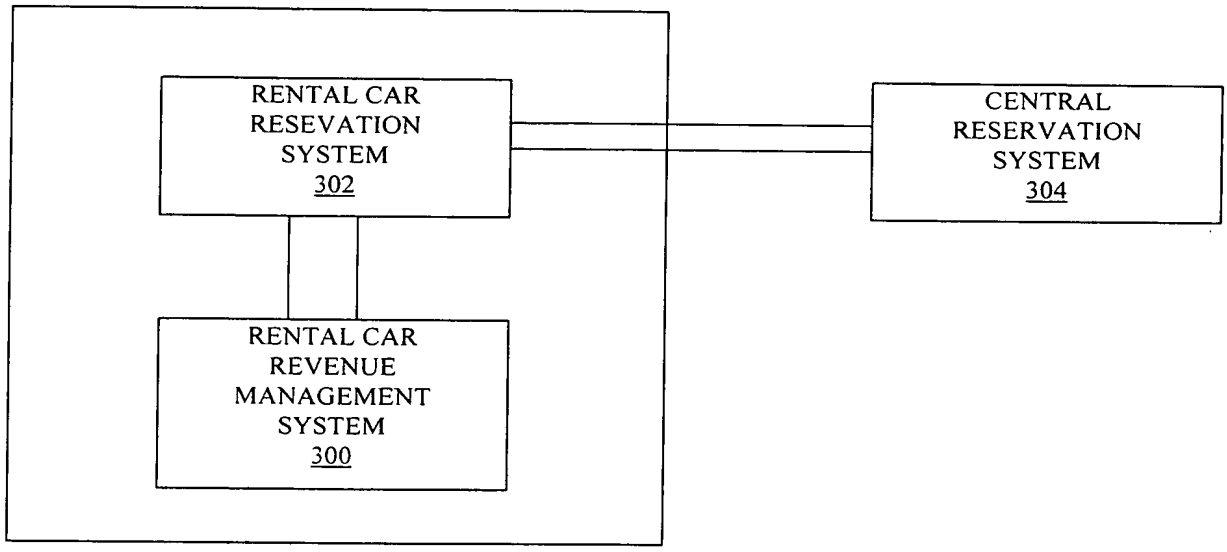
RENTAL CAR
RESEVATION
SYSTEM
302
CENTRAL
RESERVATION
SYSTEM
304
RENTAL CAR
REVENUE
MANAGEMENT
SYSTEM
300

FIG. 3

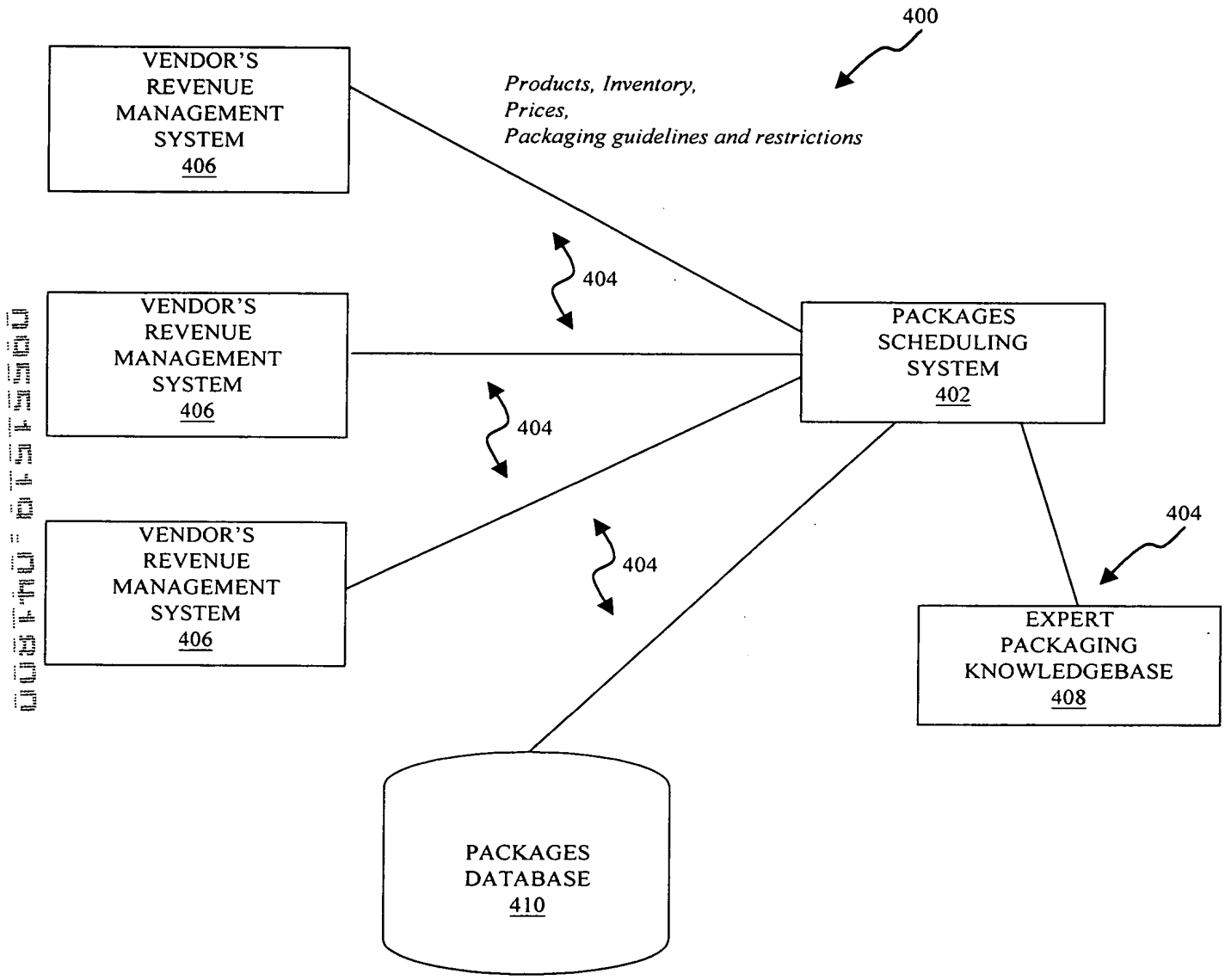
400
VENDOR'S REVENUE MANAGEMENT SYSTEM 406
Products, Inventory, Prices, Packaging guidelines and restrictions
404
VENDOR'S REVENUE MANAGEMENT SYSTEM 406
PACKAGES SCHEDULING SYSTEM 402
404
VENDOR'S REVENUE MANAGEMENT SYSTEM 406
404
404
EXPERT PACKAGING KNOWLEDGEBASE 408
PACKAGES DATABASE 410

FIG. 4

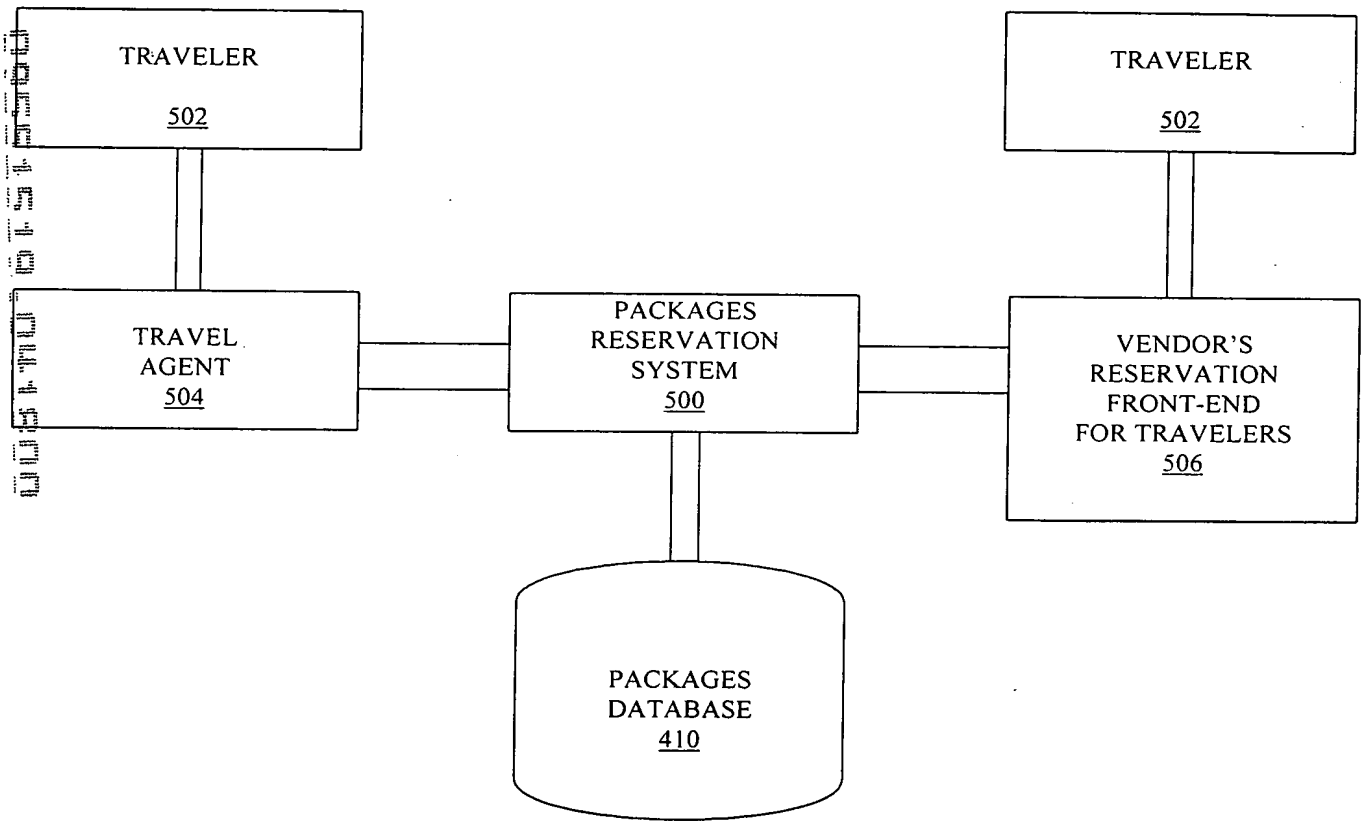
TRAVELER
502
TRAVELER
502
TRAVEL AGENT
504
PACKAGES RESERVATION SYSTEM
500
VENDOR'S RESERVATION FRONT-END FOR TRAVELERS
506
PACKAGES DATABASE
410

FIG. 5

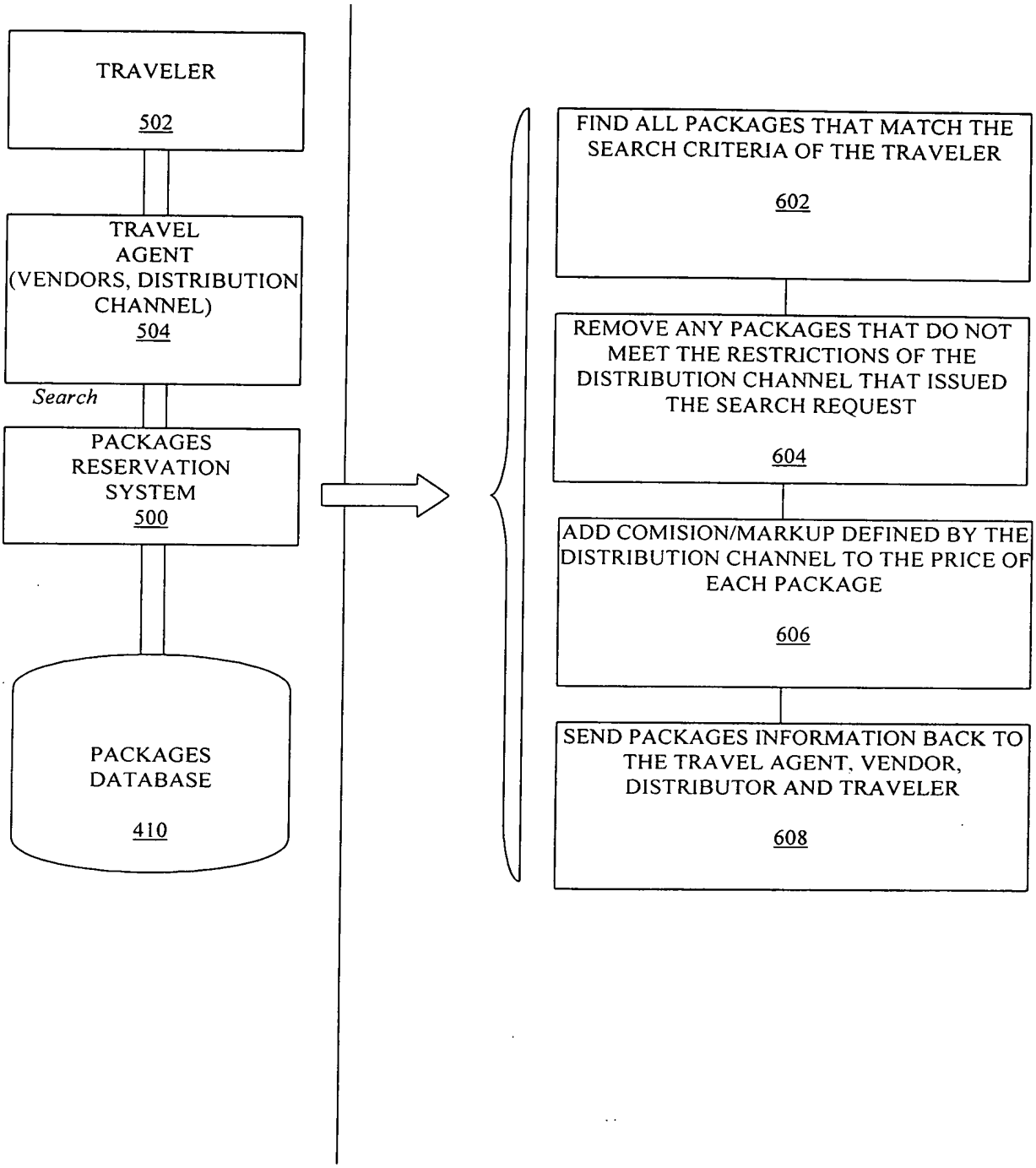
TRAVELER
502
TRAVEL AGENT (VENDORS, DISTRIBUTION CHANNEL)
504
Search
PACKAGES RESERVATION SYSTEM
500
PACKAGES DATABASE
410
FIND ALL PACKAGES THAT MATCH THE SEARCH CRITERIA OF THE TRAVELER
602
REMOVE ANY PACKAGES THAT DO NOT MEET THE RESTRICTIONS OF THE DISTRIBUTION CHANNEL THAT ISSUED THE SEARCH REQUEST
604
ADD COMISION/MARKUP DEFINED BY THE DISTRIBUTION CHANNEL TO THE PRICE OF EACH PACKAGE
606
SEND PACKAGES INFORMATION BACK TO THE TRAVEL AGENT, VENDOR, DISTRIBUTOR AND TRAVELER
608

FIG. 6

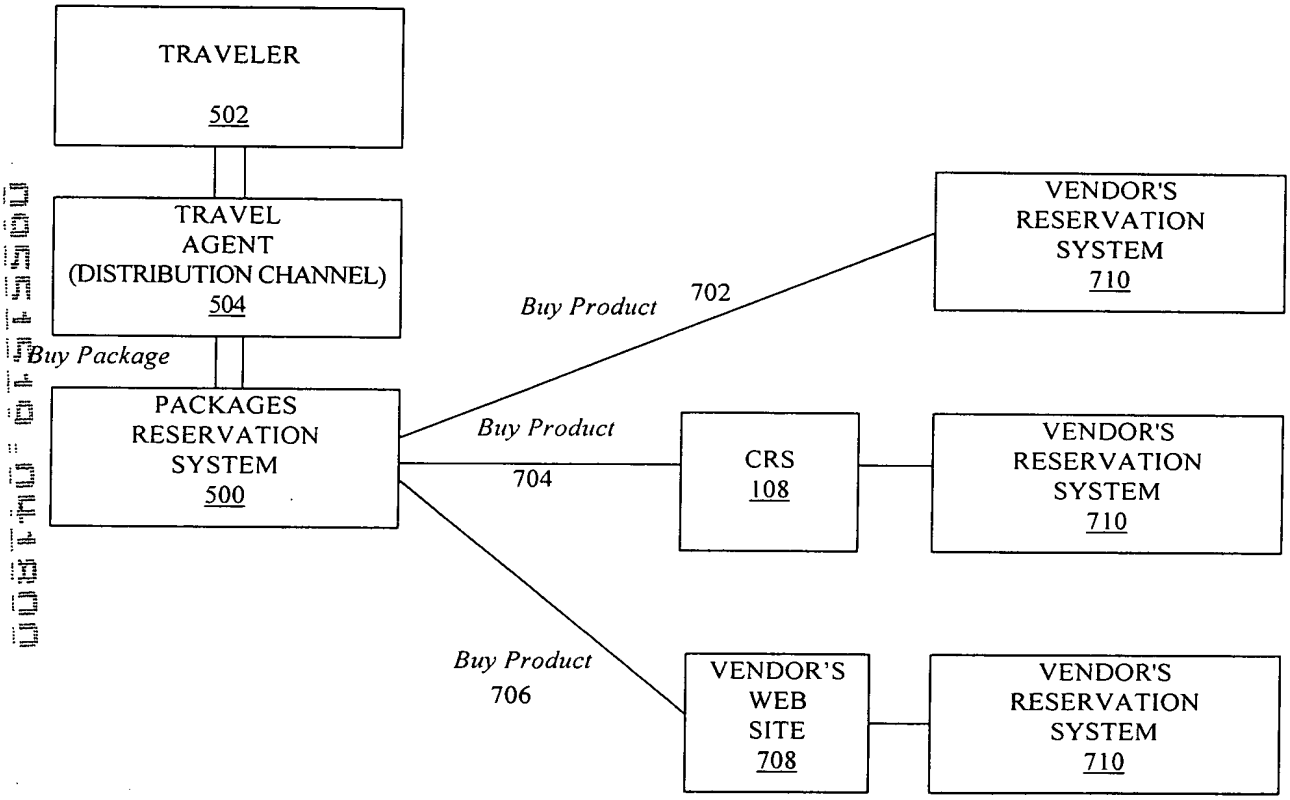
TRAVELER
502
TRAVEL AGENT (DISTRIBUTION CHANNEL)
504
Buy Package
PACKAGES RESERVATION SYSTEM
500
Buy Product
702
VENDOR'S RESERVATION SYSTEM
710
Buy Product
704
CRS
108
VENDOR'S RESERVATION SYSTEM
710
Buy Product
706
VENDOR'S WEB SITE
708
VENDOR'S RESERVATION SYSTEM
710

FIG. 7

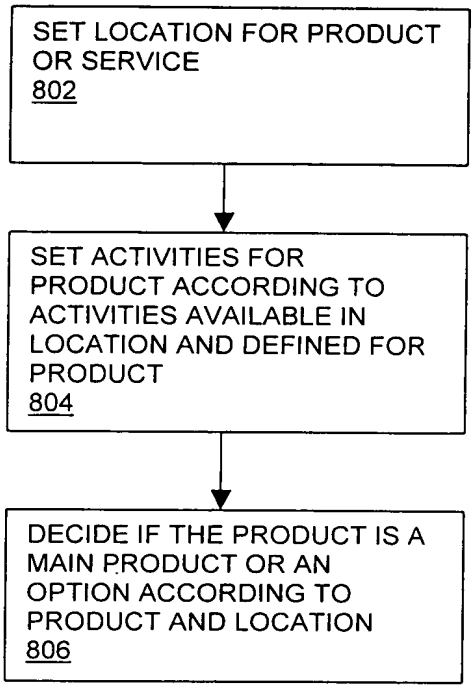
SET LOCATION FOR PRODUCT OR SERVICE
802
SET ACTIVITIES FOR PRODUCT ACCORDING TO ACTIVITIES AVAILABLE IN LOCATION AND DEFINED FOR PRODUCT
804
DECIDE IF THE PRODUCT IS A MAIN PRODUCT OR AN OPTION ACCORDING TO PRODUCT AND LOCATION
806

FIG. 8

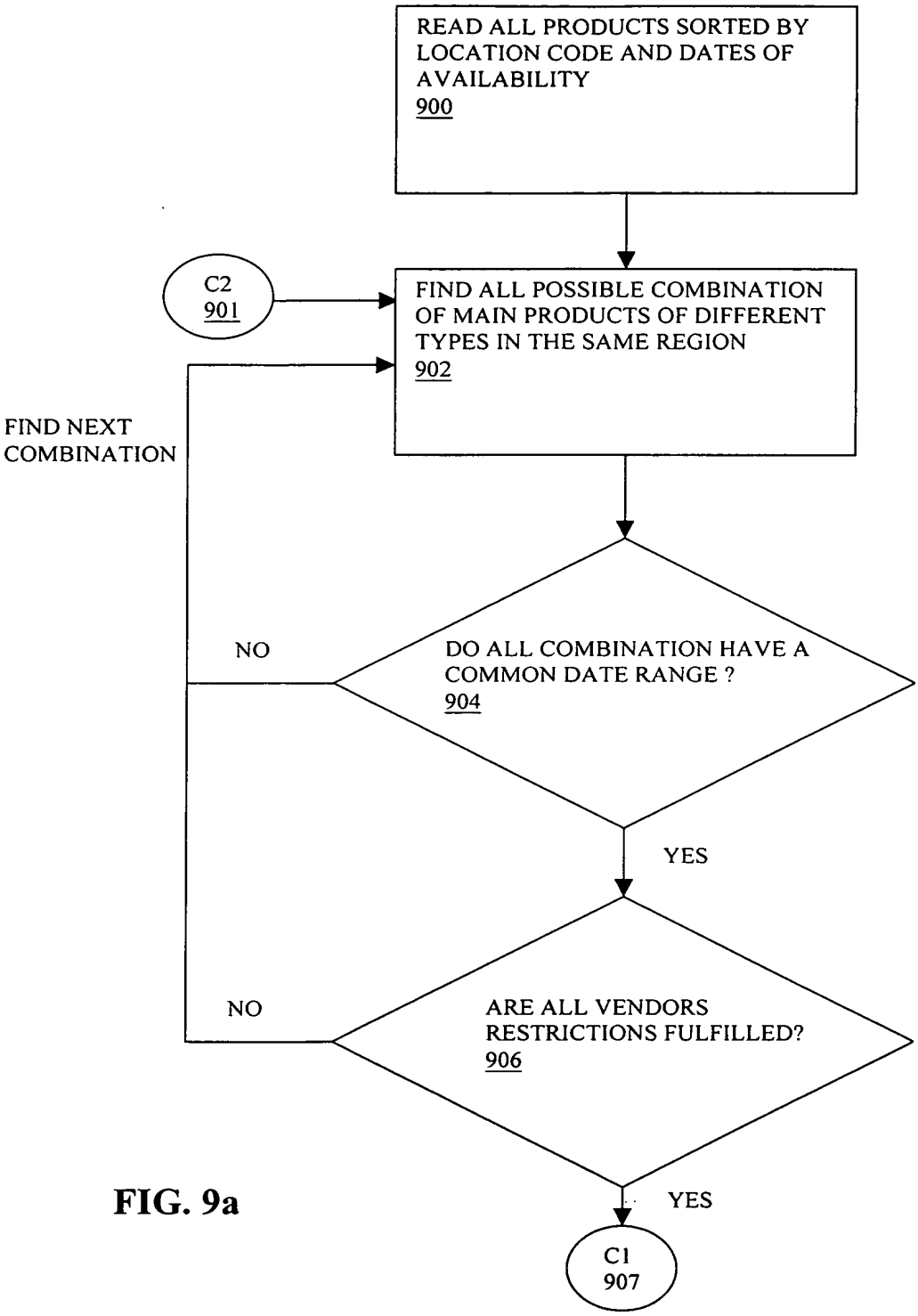
READ ALL PRODUCTS SORTED BY LOCATION CODE AND DATES OF AVAILABILITY
900
C2
901
FIND ALL POSSIBLE COMBINATION OF MAIN PRODUCTS OF DIFFERENT TYPES IN THE SAME REGION
902
FIND NEXT COMBINATION
NO
DO ALL COMBINATION HAVE A COMMON DATE RANGE ?
904
YES
NO
ARE ALL VENDORS RESTRICTIONS FULFILLED?
906
YES
C1
907

FIG. 9a

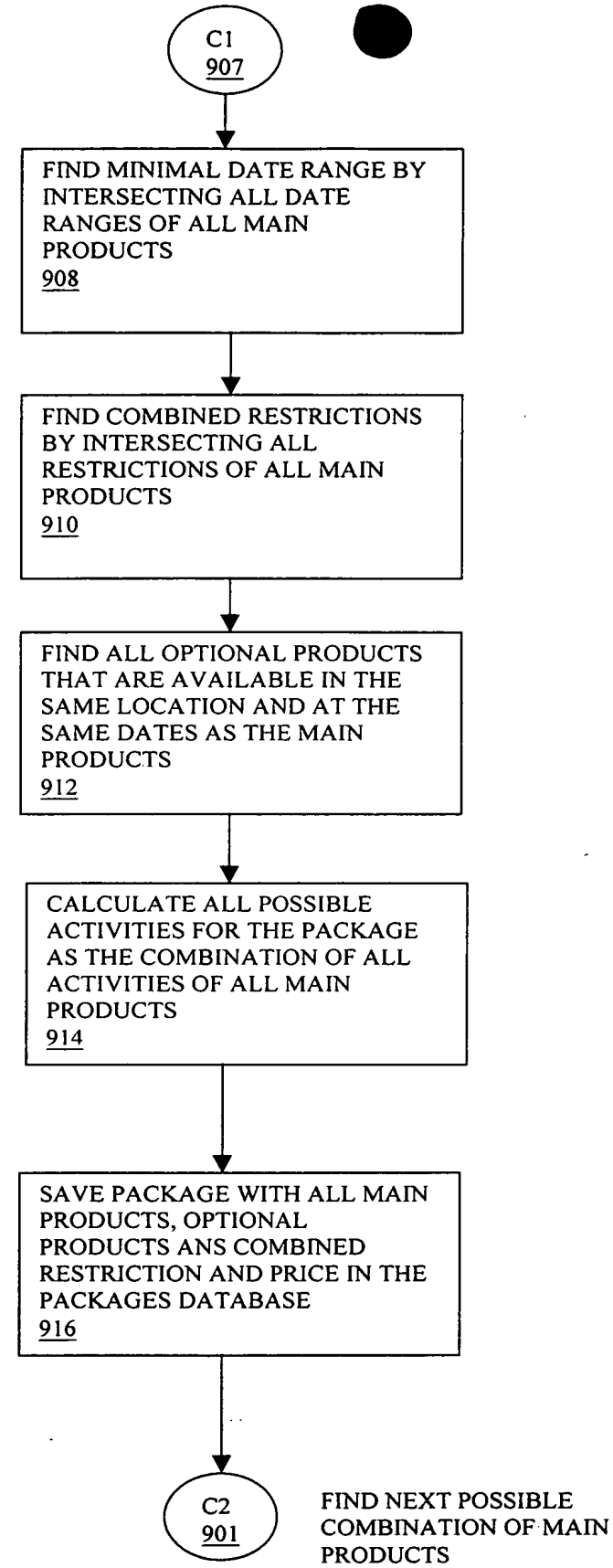
C1
907
FIND MINIMAL DATE RANGE BY INTERSECTING ALL DATE RANGES OF ALL MAIN PRODUCTS
908
FIND COMBINED RESTRICTIONS BY INTERSECTING ALL RESTRICTIONS OF ALL MAIN PRODUCTS
910
FIND ALL OPTIONAL PRODUCTS THAT ARE AVAILABLE IN THE SAME LOCATION AND AT THE SAME DATES AS THE MAIN PRODUCTS
912
CALCULATE ALL POSSIBLE ACTIVITIES FOR THE PACKAGE AS THE COMBINATION OF ALL ACTIVITIES OF ALL MAIN PRODUCTS
914
SAVE PACKAGE WITH ALL MAIN PRODUCTS, OPTIONAL PRODUCTS ANS COMBINED RESTRICTION AND PRICE IN THE PACKAGES DATABASE
916
C2
901
FIND NEXT POSSIBLE COMBINATION OF MAIN PRODUCTS

FIG. 9b

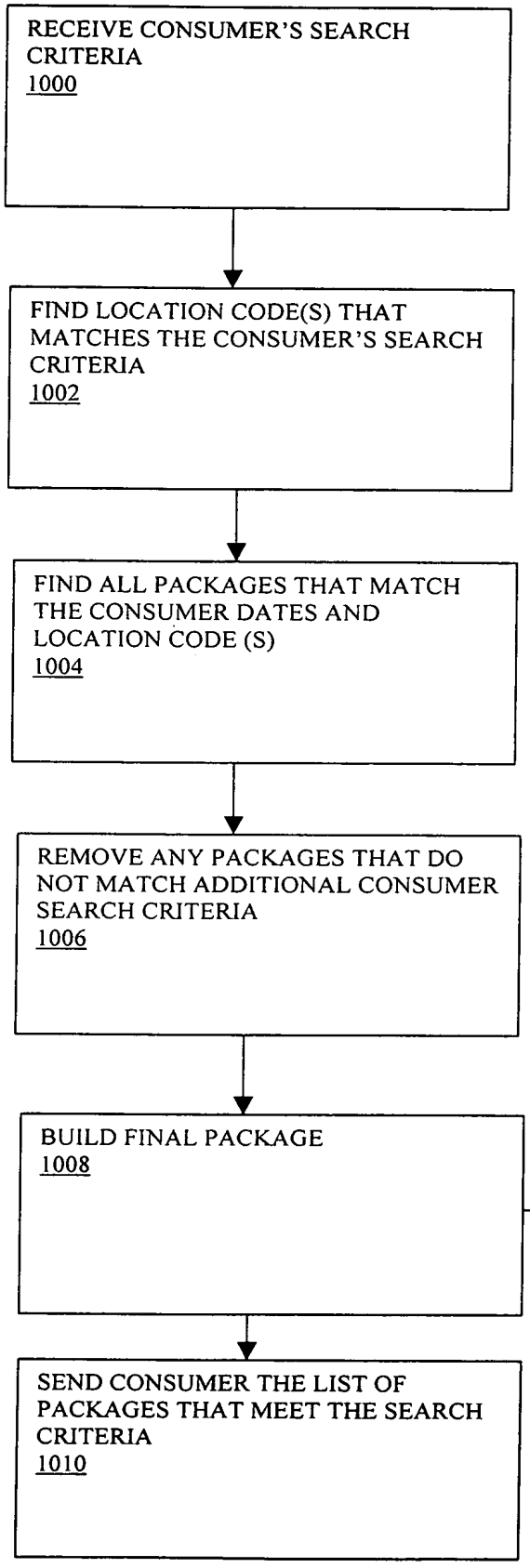

FIG. 10a

Figure 10b

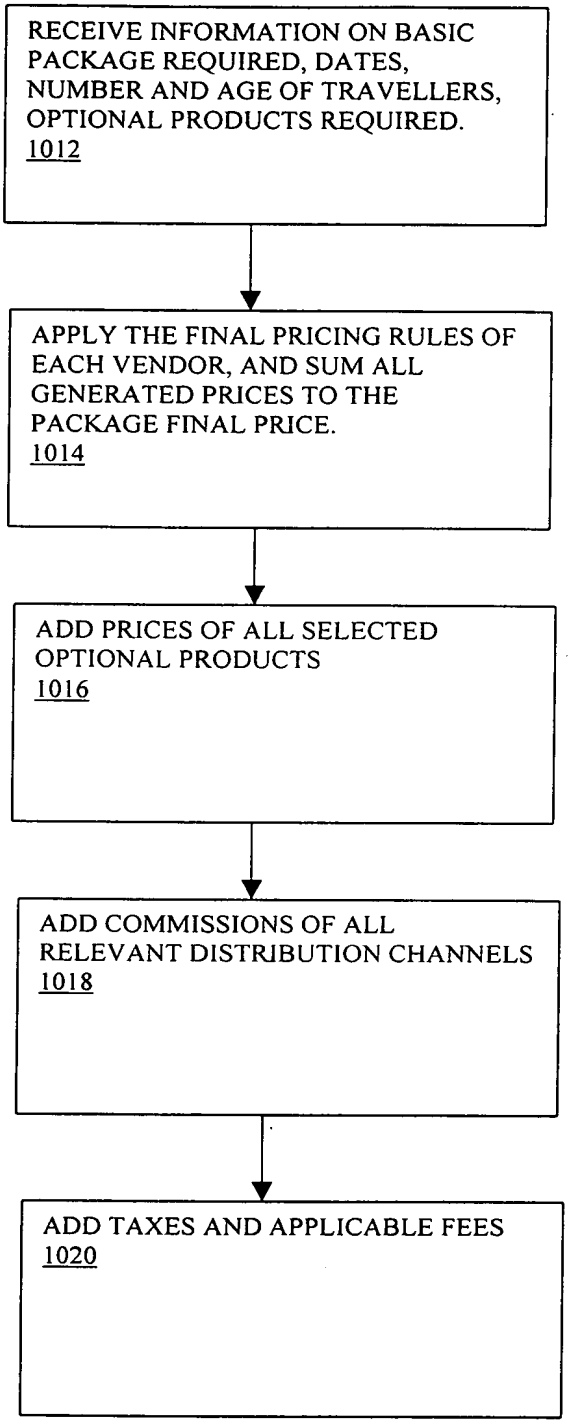
RECEIVE INFORMATION ON BASIC PACKAGE REQUIRED, DATES, NUMBER AND AGE OF TRAVELLERS, OPTIONAL PRODUCTS REQUIRED.
1012
APPLY THE FINAL PRICING RULES OF EACH VENDOR, AND SUM ALL GENERATED PRICES TO THE PACKAGE FINAL PRICE.
1014
ADD PRICES OF ALL SELECTED OPTIONAL PRODUCTS
1016
ADD COMMISSIONS OF ALL RELEVANT DISTRIBUTION CHANNELS
1018
ADD TAXES AND APPLICABLE FEES
1020

FIG. 10b

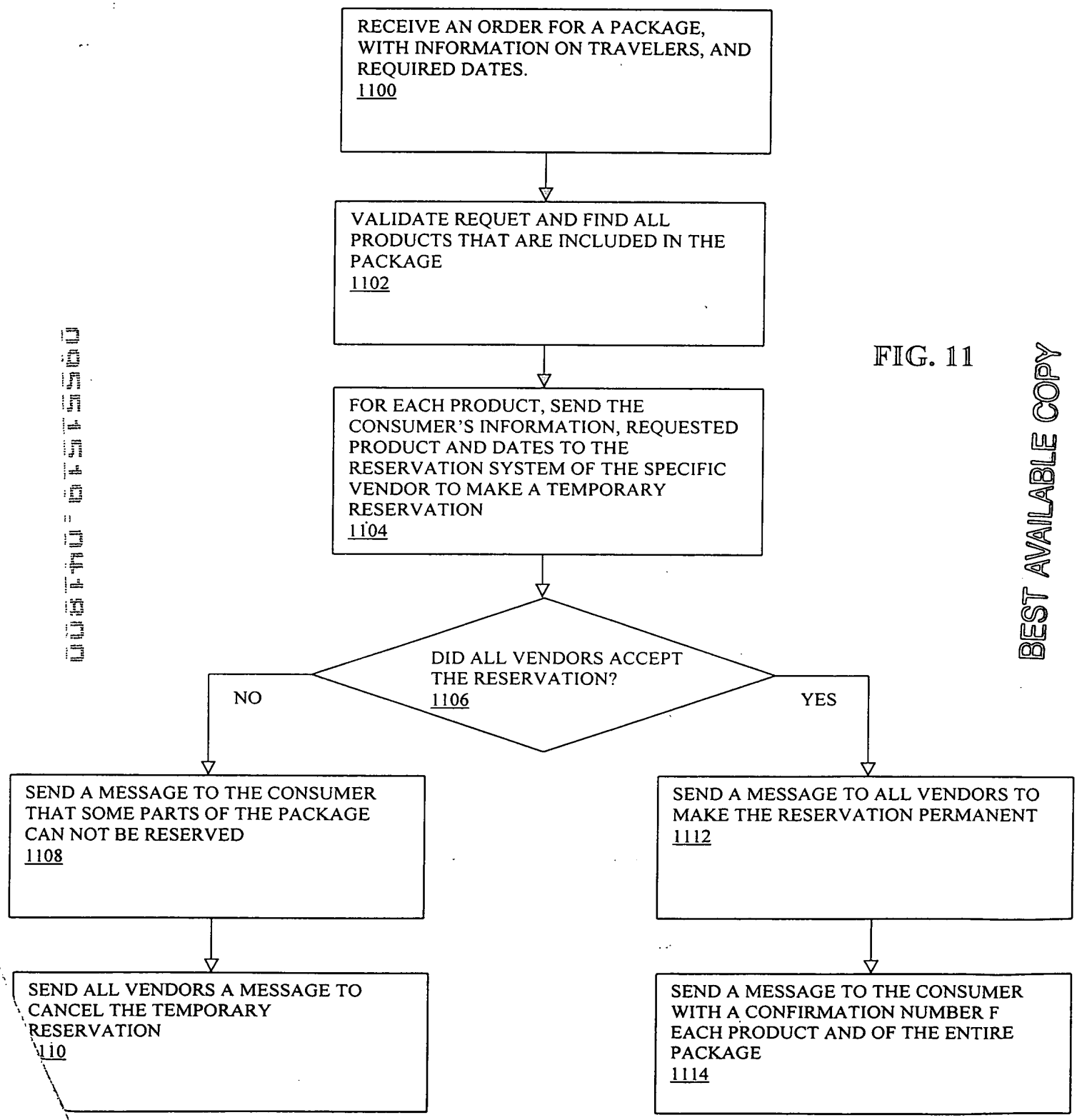

FIG. 11

BEST AVAILABLE COPY